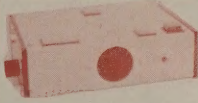


HOSPITAL INTERCOM BOX

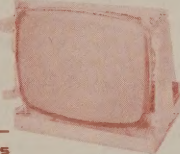


INTERCOM CONTROL BOX an experimenters delight, this item was

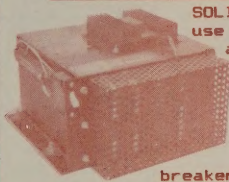
part of hospital desk-patient communications system. 8x5.6x2 aluminum box has Licon 10 amp lighted-push switches: two SP momentary 0.8" sq, one DP mom 0.8" sq and one SP mom 0.8"x1.5", a 1.6" dia 8 ohm speaker, volume control, and 7x4.5 circuit board. PC board has socketed Sigma 70R-Series 2 amp relays 2/4PDT and 1/DPDT, two Triad TY-47X 2000 ct: 16/8/4 ohm AF transformers, and socketed IC's LM324, 2/LM339, MC14001, MC14011, MC14028, MC14042, MC14585, 3/MOC319 ULN20D4; 4 lbs sh. #MID-IC-BX, used, \$9.95

GREEN MONITOR

12" diag-GREEN COMPOSITE MONITOR, high quality unit with Amperex M31-3346R CRT and fiberglass PC board. Sturdy steel frame allows easy attachment of your constructed enclosure. Requires 12 VDC 2 amps; manufactured in late 1984 by Elston Electronics. O/a 10"Hx12.8"Wx11"D; 18 lbs sh. #DM-30-WDSR, NEW w/schematic, \$39.95



400 WATT REGULATOR



SOLID-STATE LINE REGULATOR, use to protect your valuable equipment from line variances and spikes. Input 96-132 VAC 50-60 Hz; output 115 VAC +5% 0.75 to 3.5 amps. Harmonic distortion 12% total max; circuit breaker. MIL-spec quality; 11x 6.5x11, 70 lbs sh. #102-5675, unused, \$49.50

PRC-25 AC SUPPLY

C-7673/PCC-1 RECTIFIER CONTROL UNIT, intended for use with two RT-505/PRC-25 transceivers and TH-81 terminal as controller for telegraph-telephone repeater system. Also functions as 115 VAC 60 Hz or 24 VDC supply for two RT-505's. Control one or both RT-unit, power DRY BAT-BB451-OFF-VEH-115 VAC, handset connection, cables, two 3 A fuses for AC and two 5 A for DC. 2.1x9.7x6.6, 10 lbs sh. Used, \$75.00



AN/PRC-10 RADIO SET



We have sold the various components of the AN/PRC-10 radio set for years but this is the first time that we have had complete sets including RT-176 transceiver, CY-744 battery box, AT-271-272-272A antennas, AB-129 antenna base, H-33F/PT handset, CW-216 canvas bag, ST-120A/M-1945 backpack harness, and manuals in excellent "government-reconditioned" condition. Set operates over 38 to 54.9 MHz FM and has 0.9 watt transmitter output continuously tunable. Has controls for Volume, Tune, Squelch, Pointer Adjust, and Dial Lock; with tubes 9/5678, 2/5672, 3/5676, 1A4, and 5A6. Size of RT-176/CY-744: 3x9.5x20, 22 lbs sh. AN/PRC-10 Set, gov't-reconditioned, \$99.50 RT-176 only, gov't-reconditioned, \$40.00 BA-279 BATTERY f/above, 3/79 date code; non-rechargeable, 7 lbs. \$7.95 ea, 2/\$15, 12/\$72.

PRC-8-9-10 TEST SET

AN/URM-113 RADIO TEST SET, consists of TS-997 and accessories; designed to align and test modules of backpack transceivers AN/PRC-8-9-10-10A. Modules AM-427-427A, TF-132, or TF-204 from the radio under test simply plug into TS-997 and 3.5" round meter indicates the "quality" of the respective modules. Also checks crystal frequencies 4.26, 4.3, and 4.34 MHz. Operator info incld: 8.6x13x9.7. 23 lbs. Unused, \$40.



LS-166 SPEAKER



LS-166 SPEAKER housed in cast-aluminum case with cable and U-77 audio plug for use with RT-70/AM-65 and similar family GRC/VRC radio equipment. 4" dia speaker has heavy-duty PM magnet; also 600:8 ohm audio transformer and Hi-Lo switch. 5x5x3.3, 5 lbs. Used, \$12.00

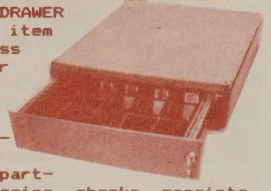
SPEED CONTROL

WALL MOUNT SPEED CONTROL, solid-state unit designed to adjust speed of Miami-Carey ceiling fans is rated 120 V 60 Hz 3 amps. Use to vary speed of any motor of similar rating. Includes aluminum mounting plate for standard outlets, hardware, and wiring info. 1 lb sh. #MSCW/KIT, NEW, \$5.95



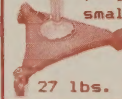
PLASTIC CASH DRAWER

RUGGED PLASTIC CASH DRAWER with keylock; a good item for the small business man or flea marketer who wants to better organize and protect his or her receipts. Brown slide-out drawer has black removable tray with 13 compartments for currency, coins, checks, receipts, etc., adjustable dividers, and five spring-loaded currency retainers. Handsome textured black case has reinforced top. 5x19x21.8, 18 lbs sh. #PL-CD-685, NEW, \$59.50



TELESCOPING STAND

PROFESSIONAL QUALITY TELESCOPING STAND two 20" long chromed sections; bottom 1.1" dia, upper 0.9" dia. Steel triangular base has 2" dia casters and is 20" across caster to caster. Removable 7" long bracket can be used to mount small item such as speaker, test instrument, etc. (A third telescoping section could be added to really increase possible uses.) 27 lbs. #2020-TST, used-good \$24.95; 2/\$45.



OFFICE CASTER SET

OFFICE EQUIPMENT-STYLE CASTER SET, includes four 2.3" dia dual-wheeled black plastic casters with 3/8" dia threaded 1/2" long metal shaft. Two of the casters have a brake lever. Designed for copy machines but usable for similar weight equipment where "good looks" is a consideration. With hardware and instructions; 2 lbs sh. #73S1234, NEW, \$8.95



HYDROGEN GENERATOR

M315B HYDROGEN GENERATOR, used to provide hydrogen for 4" balloon p/o CRT-3 Gibson Girl rescue radio. Has 1200 grams of calcium hydride crystals in long can which, when immersed in water, produces hydrogen gas. (EXTREME CAUTION must be exercised in the performance of this process because hydrogen gas is dangerously flammable and the liquid calcium by-product is very caustic!) The M315B cans are dented; suitable only for the recovery of calcium hydride. 11.6"x4.3" dia, 4 lbs sh. Unused-dented, \$6.95 ea; 2/\$12.00 INFLATION TUBES for M315B, \$3.00 ea



Fair Radio Sales Co.

1016 E. EUREKA ST.

P. O. BOX 1105

Lima, Ohio 45802

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SUMMER SUPPLEMENT TO CATALOG WS-85



**IF YOU HAVE
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WS-85,
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FOR IT
TODAY!**



TRANSFORMERS

2250 VCT 565 MA (1750 V working) secondary output from 115/230 VAC 50-60 Hz primary input; made for Collins. 6.3x4.3x4.8, 32 lbs sh wt. #TF1UX02YV, used, \$38.00

TOROIDAL-type transformers, each 4.5" dia with 115 VAC 60 Hz primaries and mounting hardware; NEW!

#5027-PS103, secondaries two 20 V 12 amp and 50 V 2.5 A. 2.5" H; 8 lbs sh. #16.95

#4365-PS182, 2/20 V 5 A sec; 1.6"H, 4 lbs, #9.



OPEN-FRAME type with 115 VAC 60 Hz primary and secondary 32 V 3.5 amps. Ideal for small 24 VDC regulated supply project. 3.3x2.8x2.3; 4 lbs sh. #X5157308, \$5.95

STANCOR #SR-448, open frame type with 115/230 VAC 60 Hz primary and 36 VCT 2 amps; 2.6x3.5x2.8, 4 lbs sh. Unused, #4.95

STANCOR #RP-2000, 115 VAC 60 Hz primary; secondary 80 VCT 2 amps and 12.6 VCT 1.5 amps. 3.5x4.2x3.8, 8 lbs sh. NEW, #7.95

UTC #CG-48C CHOKE, 75 Hy 50 ma 2200 ohms, 1750 V-test; 3.3x2.6" dia, 3 lbs. NEW #6.50

HIGH VOLTAGE

High voltage capacitors, used and unused as available:

MFD	SIZE	WT	PRICE
45 1500 V storage	6x3.8x4.5	7	\$12.00
8 4 KV case ground	8.3x3.5x2	9	12.50
2 x 0.5 9000 V	13.5x7.5x7	24	12.00
0.5 10000 V	7.8x6x5	12	11.50
0.65 12500 V	14x8x4	28	12.00
0.75 20000 V	16.8x16.8x4.5	45	22.00

EQUIPMENT BLOWERS



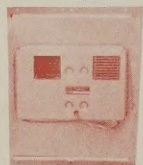
200 CFM FASCO BLOWER, 115 VAC 60 Hz 2.2 amp @ 3200 RPM; motor speed increases to compensate for any reduction of air intake. 4.5" dia inlet; outlet 3x3.3. Flange mounting 4.8x4.8; o/a 8x8x8, 9 lbs. #50755-J448, used-good \$12.95

100 CFM FASCO BLOWER, 115 VAC 60 Hz 1.0 amp @ 3100 RPM. 3-7/8" dia inlet; outlet 2.5" x2.5". Flange mounting 5.1x4; o/a 7.3x7.3x6, 7 lbs sh.

#7021-0573, NEW, \$14.95



RACK BLOWER



MCLEAN EQUIPMENT BLOWER RACK, rackmount assembly has dual 115 VAC 60 Hz 1.6 amp 1700 RPM blowers. Also top and bottom slide-in filters and 3-cond line cord. 5" depth behind panel; 23x19x8.3 35 lbs sh. #2NB512841 NEW \$39.50

HY-GAIN ANTENNAS

HY-GAIN MOBILE-COM ANTENNAS, new: 760-SERIES antennas include 52" whip, 2.5"H spring base, 18" R6-58 coax cable, PL-259 connector, & UG-175 reducer; 5 lbs sh. NEW, \$9.95 ea:

#761 (30-33 MHz)

#762 (36-42 MHz) #767 (33-36 MHz)



280-SERIES mobile coil antenna with 52" lg whip & 2" dia loading coil: #280 10 meters, 2-3/4"H coil \$9.95 #281 15 meters, 2-3/4"H coil \$9.95 #284 75/80 meters 8.5"H coil \$9.95

LOOP ANTENNA



AT-382 LOOP ANTENNA for receivers in the 190-1500 KHz range such as BC-453/R-23, R-11, and R-836/ARN-59. 9" dia loop is turned manually by use of MC-215 splin and spin knob. Has BNC connection for RF. 14x9x4, 10 lbs sh. AT-382/L-10, used \$14.00

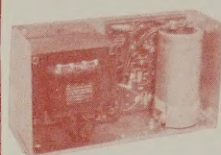
SANGAMO DC SUPPLY



SANGAMO DC POWER SUPPLY, output +5 VDC 2.5 amps and ± 12 VDC 250 ma from 115 VAC 60 Hz input; transformer-type. Modular-style chassis w/On-Off switch, fuse, and marked output terminals. 5.1x4.1x13.3, 9 lbs. #SANG-696515, used \$15.

MODULAR SUPPLIES

AC DC #ECV5N6-1 5 VDC 6 AMP MODULAR SUPPLY, +0.05 line and load regulation from 100/117/220/23/240 VAC 47-440 Hz input; 4.9x5.6x2.5, 5 lbs. NEW \$19.95



ACME ELECTRIC 15 VDC 6.5 AMP SUPPLY, voltage adjust +0.75 V; +0.1% line and load regulation from 115/220/230 VAC 47-440 Hz input. Also remote sensing and adjustable OLP. 9x4.9x3, 8 lbs sh. #APH15-6.5, NEW, \$24.95

DC REGULATOR BOARD

POWER SUPPLY REGULATOR

BOARD for supplies +5/-5 regulated 3 amp and upto 24vdc unregulated. W/capacitors 2/15000 mfd 15 V, 33000 mfd 30 vdc, 2/KBPC bridge rectifiers, two 2N6576, 2/2N4441 SCR. Regulators fixed encapsulated circuit boards and replaceable. 7.75x6x4; 3 lbs sh. #MEND-REG-SV, NEW, \$4.95



50V-1.5A SUPPLY

DC REGULATED POWER SUPPLY, designed output 0-50 VDC at upto 1.5 amp, indicated on 3.3x3.5 meter. Selectable volt ranges 5-10-15-20-25-30-35-40-45-50 VDC and current 50-150-500 ma and 1.5 A DC ranges; also Fine Voltage and Current Limit controls. We have been unable to make any of these work properly and so are selling them "AS-IS"—no further info. Transformer, meter, and enclosure OK. 9.8x7x10, 15 lbs. Used, AS-IS, \$14.



COPPERCLAD

Prime copperclad board for making printed circuits. Phenolic (PH) or fiberglass (FIB) backed; single-side (SS) or double-side (DS) as noted.

#PH-SS-16"x18", 0.06" thick, \$2.75; 5/#10. #FIB-DS-15"x12", 0.04" thick, \$2.65; 5/#10.

8748 KEYBOARD

GENERAL INSTRUMENT

S700-Series keyboard, 92 keys in qwerty format; NEC 8748 8-bit EPROM MPU and GI controller IC's. Brown keys; 3 lbs. #900239 NEW \$15.

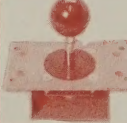


Z80A GAME BOARD



part of Bally arcade game; has Z80A CPU, 2364, 8/4027, 7416, DM81LS95 and 74-Series LS00, 2/LS02, LS04, 2/LS10, 2/LS74, LS174, 2/LS257, LS367; 14.318 MHz xtal, plus other parts. No data; 8.5x11, 2 lbs. #MI-90701-B620, NEW, \$6.95

ARCADE JOYSTICK



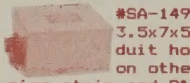
Has 1.2" dia ball-control, four microswitches, 4"x4" steel mounting plate. Designed for heavy-duty, fast-action use. 1-lb sh wt. #IL-AR-JS, NEW, \$7.95

CASES & ENCLOSURES

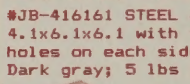
#CS/1-193 PLYWOOD CHEST w/hinged top, side handles and hasp fasteners; interior 8"H x 21.8"W x 11.5"D w/2.3"D top. O/a 11.8x23x12.8, 26 lbs sh. Used, \$10.



CS/MK993 ALUMINUM EQUIPMENT CASE with hinged top and foam-padded top liner. Also hasp fasteners and pressure release; removable rubber insert. 7.3"Hx20.5"Wx10"D; 10 lbs. Used \$20.



#SA-1499 TERMINAL BOX, usable as 3.5x7x5 project box; has two conduit holes one end, two connectors on other. Inside 15-term 3/4" barrier strip and P&B MH230D 12 VDC sealed relay; steel, 5 lbs. Used, \$2.95

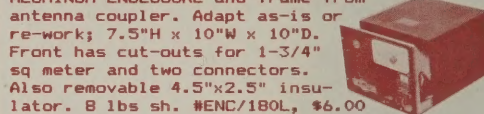


#JB-416161 STEEL JUNCTION BOX, 4.1x6.1x6.1 with three knockout holes on each side for conduit. Dark gray; 5 lbs sh. NEW, \$4.50



#ENC/ROMII ENCLOSURE, designed for portable test instrument; cover telescopes and slide-snaps over slant-style bottom. Top handle and rubber feet on back and bottom. Slanted section 2"D min to 3.8"D max; o/a 8x8.5x5.3, 3 lbs. Unused, \$5.95

ALUMINUM ENCLOSURE and frame from antenna coupler. Adapt as-is or re-work; 7.5"H x 10"W x 10"D. Front has cut-outs for 1-3/4" sq meter and two connectors. Also removable 4.5"x2.5" insulator. 8 lbs sh. #ENC/180L, \$6.00

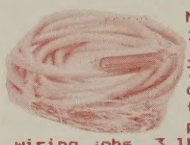


EQUIPMENT GLIDES military quality 2"W x 18"L chassis slides have 21" travel; load rating approx 100 lbs. 6 lbs sh; #GL-1821, used, \$10 per pair.

S-C SLENDERET

STROMBERG-CARLSON SLENDERET

DESK PHONE with touch-tone key pad and ringer in popular almond color; FCC registered. Unfortunately these high-quality S-C phones have had their modular receptacle line jack disconnected—but priced cheap to make it worth your while! 4 lbs sh. #SC-AD2, used-AS-IS, \$9.95



MULTI-LINE TELEPHONE CABLE, 18 feet of 50-conductor PVC jacketed cable with Cinch 77-72500 blue connector on one end and terminal lugs on the other; a nice ready-made piece for those complex wiring jobs. 3 lbs; #50-TC-18, used, \$7.95

ENVIRONMENTAL TEST

BLUE M Constant Temperature Control

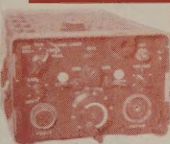
Equipment; 115 VAC 60 Hz, used-repairable: #MW1115 Utility Oil Bath, 3.5 gal., upto +180°C; 12x7.5x7.5 work area. 65 lbs, \$100. #MW1145A-1, as above except 240°C max; \$125. #MW1162 Full Visibility Jar Bath, upto 100°C; 12"x12" jar area. 45 lbs sh, \$90.00

NEW ENGLAND OVEN & FURNACE CA650, 100°-650°F controller, 20x24x17.5 oven space; 220 VAC 60 Hz 3.5 KW, 200 lbs sh. \$225.00

CHART RECORDERS We have a number of one-of-a-kind recorders available in used-repairable condition:

HONEYWELL ELECTRONIK 16, -100° to +500°F temperature; speed 4"/hr X 1-2-4-8, \$200.00 ELECTRONIK 15, -50° to +50°C temp; Unused \$400. HONEYWELL 1108 VISICORDER, 24 channels, 0.05"-80"/sec; w/o galvos, \$395.00 GENERAL ELECTRIC RECORDING VOLTMETER CF-1, 0-140 VAC non-linear scale; portable, \$75. GE RECORDING VOLT-AMMETER 8CF7BAB9, 0-150-300-750 VAC 50/60 Hz and 0-15-30-75-150-300-750 amps AC; with transformer, \$150.00 Older HONEYWELL-BROWN 153-Series recorders available under \$100; send SASE for list.

RT-70/GRC TRANSCEIVER



RT-70 TRANSCEIVER, 47 to 58.4 MHz FM with 500 MW transmitter output. Continuous tuning or two preset channel selection. Receiver circuit has 15 MHz IF and 1.4 MHz final; 600 ohm audio out with variable squelch. Built-in crystal calibrator every 1 MHz. Requires 90 VDC 80 ma, 6.3 V V 360 ma, and 6.3 V 160 ma. Tubes 6/1U4, 3/1L4, 2/1R5, 1AE4, 4/3Q4, 3A5, 3B4. 4.8x8x13, 22 lbs. Gov't reconditioned \$37.50

AM-65/GRC AUDIO AMPLIFIER, 3-channel audio for RT-70; also functions as power supply when used with a PP-281 or PP-282 modular supply which plugs inside AM-65. 4.4x13x8, 17 lbs. Used, \$14.95



PP-281 Power supply; allows 12 VDC operation of RT-70/AM-65. 6 lbs sh. Unused, \$22.95
PP-282, as above but for 24 VDC; unused, \$8.
CONNECTORS only to make RT-70/AM-65 interconnection; two required, used, \$3.00 ea
M-27 MIC for use with above, used, \$5.00
MANUALS for RT-70 or AM-65, \$5.00 each.
MANUAL for AN/VRC-7 (RT-70/AM-65 system) \$7.50

GRC-3--8 CONTROLS



C-433 REMOTE CONTROL, used with GRC-3 thru -8 radio equipment allowing remote operation of the radio sets from up to 2 miles away. Also allowed two-way field telephone communication when used with H-33/H-156 handsets. Has G-25 ringing generator and VP-2 bell. Uses two "D" cells (not included) for phone operation; 45 VDC required for remote radio use. 3.5x8.3x7.2, 9 lbs sh. Used, \$16.00; C-433A w/G-42A, unused, \$22.00

C-434 LOCAL CONTROL, similar to C-433 except used at radio site; connects to Rx-Tx audio allowing remote use by C-433 and duplex phone. 3.5x8.6x10.1, 12 lbs. Used, \$20.00
MANUAL for C-433-434 (AN/GRA-6), \$7.50

C-435/GRC CONTROL, plugs into MT-297 mount and allows duplex use and retransmission of GRC-3 thru -8; functions as junction for control and audio lines of Rx-Tx and aux-Rx. Has 1.75" sq meter; no generator. 3.5x8.8x7.3, 7 lbs sh. Used, \$15.



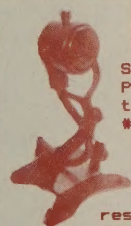
H-63 HEADSET

H-63/U HEADSET with 800M MIC, 600 ohm phone elements and 100 ohm mic element; 14" cord. 2 lbs sh. Used, \$12.00
ELEMENTS only, phone or mic, \$2 ea

AN/GSA-6 CHEST GROUP, used to connect H-63 with GRC-3--8 radio equipment; includes SA-142 switch and CX-1070 cable terminating with U-77 connector. 2 lbs sh. Used, \$8.00

HS-33 600 OHM HEADSET, general purpose, military-quality headset w/ANHB-1 or H-3/ARR-3 elements, HB-7 brown leather headband (not U.S. mfg.), 18" cord, & PL-354 plug; 2 lbs. Used \$15.

HS-33 with gray plastic headband and 4.5' cord & plug, \$15.25
CD-307 65" cord for HB-7, \$2.00
MC-162 CUSHIONS, 2.5" dia, \$1.10/pr
MX-41/AR CUSHIONS, 2.8" dia, \$1.25/pr
MS01 CHAMOTIS CUSHIONS, 4" dia, \$2.25/pr



SOUND POWER

SOUND-POWERED CHEST MICROPHONES for wire communications without batteries:

MM-236-6A, push-to-talk Navy style, 200 ohm DC resistance; 18" cable, 6 lbs. Unused \$9.95

HM-164/U MIC, 60 ohm DC res., 1024 ohm impedance; 10" cord with PL-354 plug. Chest plate has JJ-26 jack for 1024 ohm headset. 3 lbs; Unused, \$14.95

PORTABLE METERS



PORTABLE TEST METERS with mirrored scales; designed accuracy of 0.75%. Rugged plastic case with strap handles; used:

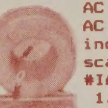
WESTON MODEL 433, 5.1x5.3x3.3, 4 lbs., \$25 ea
Scales: 0-100 MA AC 0-250-500 MA AC
0-1 AMP AC 0-5 AMP AC

WESTON MODEL 931, similar to Model 433, \$22 ea
0-1.5-15-150 MA DC 0-50-250-500 MA DC
WESTINGHOUSE PX-4, 4.6x4.9x2, 3 lbs, \$16 ea
0-3-150 VDC 0-10-50-500 VDC

WESTINGHOUSE P45 (AC) or PX5 (DC), 0.5% designed accuracy; with wide scale and front cover. 7x8x4, 8 lbs sh. Used, \$30 ea.

0-5 A AC 0-15-150 A DC
0-300-600 A DC

Other scales/models available. Write needs!



AC CURRENT TRANSFORMERS for AC ammeters with 200 amp indicated and 5 amp full scale movements:

#1A-2005-3, 5 VA 50-125 Hz; 1.4" inner dia, 3.7" outer dia. 2 lbs sh., \$7.95

#GM-10101, rated 600 V; 2" inner dia, 3.7" outer dia, 2 lbs sh., \$8.95

DUAL RUNNING TIME



Two ENGLER 2.9" dia 115 VAC running time meters with 5-digits + tenth hour indication, Sodeco 115 VAC 7-digit counter and three reed relays all in 3.5x8 x3.3 black metal box;

3 lbs. #2RTM-CB, used, good-condition \$17.95

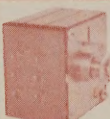
DAVEN 30-STEP POT

DAVEN 100K ohm STEP POTENTIOMETER 58 db and "off" in thirty 2 DB steps; 2.1"x2.3" dia plus 0.9"x 0.25" dia shaft, 2 lbs sh wt.

#CP-730-T, unused, \$14.95



100K ATTENUATOR



100K 2-DECK ATTENUATOR, 0-100K in 10K steps; has 1.3"L x 1/4" dia shaft and is in 1.5x1.5 x1.2 box. ALPS #220359, NEW, \$2.95

3-WAY FOOT SWITCH

WOLLENSACK DELUXE 3-WAY FOOT CONTROL, large "play" pedal switch has two smaller bar-type switches for "rewind" and "fast forward". Switches are each rated 15 amp 115/230 VAC or 0.5/0.25 A 115/230 VDC; 6 foot four-conductor cord included. 1.5x7x5.5, 2 lbs sh wt. #FSW-A0548, NEW, \$8.95



ROTARY STEPPER

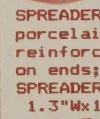


ROTARY STEPPING SWITCH, 115 VAC 60 Hz ratchet-type that can be modified to take up to seventeen contacts w/electric reset. 4.2x3.2x2.5, 2#. #SS-109216, NEW, \$4.95

INSULATORS

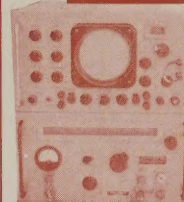


STRAIN INSULATOR, brown porcelain 2.1"H x 2.3" dia with 0.7" dia center hole; #STI-2123D, \$.65 ea; 4/#2.



SPREADER INSULATOR, brown porcelain 8.5"Lx1.8"Hx1"D reinforced 0.5" dia hole on ends; 3 lbs. #SPI-85181, \$1.95 ea; 2/#3.
SPREADER INSULATOR, brown porcelain 14"L x 1.3"Hx1"D w/0.4" dia reinforced hole each end; 3 lbs. #SG1100-192, \$2.75 ea; 2/#4.50

SPECTRUM ANALYZER

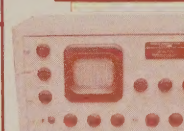


TS-1010/UPM-84 SPECTRUM ANALYZER, covers 10 MHz to 44.88 GHz in eight bands; 5" 5ADP7 CRT display. Resolution at 3 db points: 20 KHz over range. Dispersion: 500 KHz-5 MHz adjustable (10-55 MHz); 500 KHz-25 MHz (55 MHz and up). Spectrum calibrator 160 MHz center

freq +12.5 MHz. Sensitivity as low as -63 db (10-150 MHz); 40 db (2.0 GHz up.) RF attenuation 100 db uncalibrated internal 10 MHz to 12.4 GHz; external attenuators required above. IF attenuation 0-60 db in 6 db steps. Requires 115 VAC 60 Hz. 17.3x19x26; 180 lbs sh, 145 lbs net. Used-repairable, \$250. \$265. TRANSIT CASE, 75 lbs, \$15 w/set purchase. MANUAL, partial reproduction, \$15.00

ACCESSORY KIT including five bandpass filters for segments of 0.75-11.8 GHz range, three variable attenuators and three coax-to-waveguide adapters for 12.4-44.88 GHz, transit case and manual, \$85.00 w/set purchase.

PANORAMIC INDICATOR



IP-173 PANORAMIC SPECTRUM INDICATOR, similar to Singer SB-8T. Designed to scan and analyze RF signals to identify signal level, frequency, and modulation. Can be used to determine correct

deviation ratio of FM transmitters. Usable up to 1000 MHz; displays up to 1000 KHz spectrum width. Center freq: 5 MHz. Bandpass: 4.5 to 5.5 MHz. IF transformers tuned to 1.5 MHz; FM oscillator mean freq. 6.5 MHz. Input imped: 50 ohms. Direct sensitivity: 100 uv for 1/4" deflection on CRT at 5 MHz. Sawtooth sweep; rate 1 Hz (non-synched), 5, 30, and 25 to 35 Hz variable. Has 5UP7 CRT. Requires 2/6.3 VAC, 265 VDC, and -1870 VDC. 12.3x22.5x20.5, 68 lbs. Used-repairable, \$75.

IP-173, as above but less cabinet, \$60.00
IP-173 with 115 VAC 60 Hz power supply and interconnecting cable; 100 lbs, used, \$100.
MANUAL for IP-173, partial repro, \$10.00
CONSTANT VOLTAGE TRANSFORMER for IP-173 system, 95-130 VAC 60 Hz input for constant 115 VAC out; 15 lbs. #SOLA/IP-173, \$25.00

AUDIO TEST GENERATOR

HEWLETT-PACKARD 205AG AUDIO SIGNAL GENERATOR, has two voltmeters to measure input and output of unit under test plus 0-40 db in 5 db step input attenuator and 0-110 db in 1 db steps. Response: 20 Hz-20 KHz; output 5 watts max into selectable 50, 200, 600 or 5K ohm loads. Requires 115/230 VAC 50-1000 Hz. 12.8x20.8 x15.5, 63 lbs. Used-repairable w/book, \$125.



HEWLETT-PACKARD 200CDR WIDE RANGE OSCILLATOR, rack-mount unit covers 5 Hz to 600 KHz in five decade ranges; +2% designed accuracy. Input impedance 600 ohms. Requires 115/230 VAC 50-1000 Hz. 7x19x14.5; 26 lbs sh. Used-repairable, \$85.00 \$69.50



800-2100 MHZ GENERATOR

HP-614A UHF SIGNAL GENERATOR, 800-2100 MHz CW, FM or pulsed in single band. Attenuator range: 0 - -127 db (0.223 V to 0.1 uv); output 0.5 mw into 50 ohms. Internal pulse modulation 40-4K per sec variable repetition rate; length 1-10 usec, delay 3-300 usec. Requires 115/230 VAC 50-1000 Hz. 13.6x17.3 x13.5; 70 lbs sh. Used-repairable, \$250.00

ART-13 TRANSMITTER



T-47/ART-13 HF TRANSMITTER, famous 2 to 18 MHz 100 watt AM-CW-MCW set which was the next "step-up" from the Command Set Transmitters for many

of the post-WW-II and Korea radio amateurs. It is now "classic" for the collector. Can be manually tuned or autotuned for 11 preset frequencies. W/tubes 2/6V6, 12SA7, 2/12SJ7, 2/12SL7, 2/811, 813, 837, 2/1625. Requires 24 VDC 10 amps, 400 VDC 225 ma, 1250 VDC 250 ma. 23.5x16x11, 85 lbs sh. Used, \$115.00

 MANUAL for ART-13, partial repro, \$12.00
 MT-284/ART-13 mounting base for Tx, \$12.00
 O-16/ART-13 OSCILLATOR, plugs into ART-13 and adds 200-600 and 500-1500 KHz range; w/1625 tube. 6 lbs sh; used, \$19.95
 CDA-T CRYSTAL OSCILLATOR, plugs into ART-13 and converts four crystal-controlled channels to 200-500 KHz range; w/1625 and 6AQ5. 6 lbs sh. Used, less crystals, \$12.95
 DY-17/ART-13 24 VDC DYNAMOTOR only; filter-base not available. 28 lbs sh; Unused, \$15.
 CU-24/ART-13 SHUNT CAPACITOR, unused, \$1.50
 T-17 MICROPHONE, used, \$6.95
 J-37 TELEGRAPH KEY w/base & cord, used \$7.95

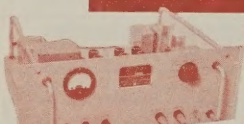
LINEAR AMPLIFIER

AM-6154/GRT-21 LINEAR POWER AMPLIFIER (ITT Model 3211), conservatively rated for 50 watt output from 10 W exciter input over 118 to 149.95 MHz. Uses Eimac X651Z/8930 or Amperex DX393 tetrode in silver-plated cavity in removable drawer; 175-turn tuning counter dial. Main chassis has solid-state power supply and buffer amp/multiplier; test meter on panel monitors voltages. Requires 105/120/210/240 VAC 50-400 Hz and +20 V reg 60 ma, +20 V keyed. 7x19x18.5, 80 lbs in 2 packages (UPS). Schematic pack included. Used-excellent-not tested, \$209.50



AM-6155/GRT-22 UHF POWER AMP, same as above except 225-400 MHz; Used-excellent, \$159.50

ANTENNA COUPLER



CU-872 ANTENNA COUPLER, handles upto eight receivers in the 2-32 MHz range. Gain: 0 to 3 db. Noise figure: 6 db or better. Has 0-50 microammeter test indicator and circuit selector switch on front. 70 ohm input; type N connections. With tubes 20/6922, 0B2. Requires 115/230 VAC 50-60 Hz. 7x19x16.5, 40 lbs sh. Used-repairable, \$49.50
 MANUAL for CU-872, partial repro, \$8.50

TRANSFER RELAY



TRANSCO DP TRANSFER RELAY, 28 VDC coil, DC-4 GHz; four TNC RF connections. Power connector included; 2x2x4.5, 1 lb sh wt. Transco #16530, used, \$12.95

AS-1729 ANTENNA SET



AS-1729/VRC ANTENNA SET, consists of MX-6707 matching unit-antenna base, AS-1730, and AT-1095 fiberglass mast sections; designed to be used with RT-246-524/VRC transceivers and vehicular installations of PRC-25-77 radio sets. MX-6707 has automatic or manually tunable frequency ranges 30-33, 33-37, 37-42, 42-47.5, 47.5-53, 53-56, 56-60, 60-65, 65-70.5, and 70.5-76 MHz FM; also BNC connection for RF. Bottom mast section AS-1730 is 52.5"L, upper AT-1095, 64"L; MX-6707 14.3x5.5" dia. 15 lbs; used, \$49.95
 MANUAL for AS-1729, partial repro, \$8.50
 MX-6707 MATCHING UNIT only, used, \$29.95
 AT-1095 MAST SECTION only, used, \$12.50

LARGE GLASS TUBES



Once again we have obtained some interesting large collector and experimenter tubes. At our low prices they are not guaranteed operable.

 EIMAC 2-450A High Vacuum HV Rectifier, 30 KV peak 7.5 V 25 A fil. 13.3"H x4.3" dia; 6 lbs. \$17.50



WESTERN ELECTRIC 701A UHF Pulse Tetrode; jumbo 4-pin. 7.5"Hx4" dia; 3 lbs. \$12.50
 EIMAC 2-450A "unused-GUARANTEED", \$125.00

NUVISTORS, used-checked:

6CW4 \$6 ea; 7586 \$10 ea; 7587 \$16 ea
CRT SALE! used in older O-scopes; 4 lbs, unused: 5BP1 \$12 \$10 5CP1 \$15 \$8.

ANTIQUE GLOBE TUBES, for your pre-1930's radios while supply lasts; used-checked, \$7.50 each:

24/224/324 26/226/326 27/227/327
 71/171/371 841 38401/3821
 UX201A/301A \$12.00 each

 WESTERN ELECTRIC 336A Class A audio tube; 10 V fil, 250 V plate 4200 uMhos 3.5 watts. 6-pin base; ST-shape. Unused, \$8.00 ea
 Used-checked: WE310A \$5.00 - WE421A \$8.00

203A TRIODE, 100 W Class B, 10 V 3.3 A fil; like 211/VT-4 but 25 mu. Unused, \$15.00

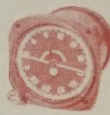
COMPASS INDICATOR



5" dia RADIO COMPASS INDICATOR with 0-360 degree scale in 1 degree increments and AY-54 autodyn. These are compatible with the popular antenna position project outlined in the 9/79 issue of QST Mag. I-82 or similar; 4 lbs sh. #5D-RADCOM, used, \$24.95

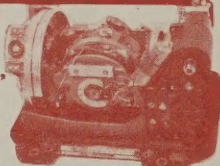
3" dia RADIO COMPASS INDICATORS, 0-360 degree scale in 2 degree increments; usable in antenna position or wind direction projects. 3 lbs sh; Unused:

#ID-637, p/o ARN-59 set, \$10.95
 #ID-91B, p/o ARN-6 set, \$11.95



GYROSCOPE ASSEMBLY

HONEYWELL VERTICAL GYRO ASSEMBLY #JG-7044-A17, single pitch and roll gyro with 400 Hz motors, mercury switches, etc. Gimbal freedom: ±360° (outer axis, longitudinal), ±85° (inner axis, transversal). Erection rate 2°-6° min. Also 400 Hz 1 Ø motors 26 V (torque), 115 V (caging solenoid), and 115 V 21000 RPM (power motor). Pick-up pots: 30K² ohm ±168° (roll), 30K² ohm ±80° (pitch). Angular momentum: 4.75x10⁶ gm cm /sec. Unit has "line of flight" monitors for normal loft or alternate O/S. 7.5x9x6; 11 lbs. Used, \$25.00



PORTABLE 5 MHZ SCOPE



TELEQUIPMENT D32 PORTABLE DUAL-TRACE SCOPE, solid-state DC to 10 MHz with 2.8"L x 2.3"W display operates from 105-125/210-250 VAC or 9 VDC using six "D" size rechargeable batteries (not included). Vertical sensitivity: 0.01 to 5 V /div nine steps 1-2-5 sequence. Sweep: 0.5 usec to 0.5 sec in 19 steps 1-2-5 sequence; 250 V max input. Also X5 expander, Trigger Level, Auto/Manual, +/- Slope, Internal/Ext, and adjustable carrying handle/stand. 3.8x9 x12, 15 lbs. Used-repairable w/manual, \$225.

 JENNINGS CVFB-1500-40 ceramic vacuum variable capacitor 100-1500 pf 40 KV max/24 KV min; 25 lbs. Unused \$595.

TMC GPT-1K COMPONENTS
 Component units and parts for Technical Materials Corp 2-32 MHz SSB 1 KW transmitters. Write your needs and include SASE.

UNIVERSAL BRIDGE



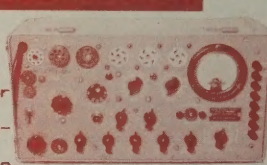
ZM-11 TEST SET, portable bridge unit designed to measure capacitance, inductance, resistance, transformer turn ratio, dissipation factors of inductors and capacitors, and storage factors of inductors—all at 1 KHz test frequency. Also insulation and leakage of electrolytics in circuit using 10.75 MHz test frequency. Capacitance range: 10 pf-10 mf, 1 mf-100 mf, 10 mf-1100 mf. Inductance: 0.1 mH-1 H, 1 H-10 H, 10 H-110 H. Insulation DC res: 200-500 megohm, 5K-10K megohm. Transformer turn ratio: 0.01-110 (K=1). DC leakage: 0-1-5-25 ma. Dissipation: 0-0.06 (10 pf-0.1 mf), 0-0.6 (0.1 mf-1100 mf). Q Storage: 0.5-20. DC applied to electrolytics is 500 VDC. Uses test leads with standard banana jacks. (Leads not available.) W/tubes 6E5, 6J6, 2/6AV6, 6AG5, 6AL5, 6AQ5, and 6X4. Requires 115 VAC 50-1000 Hz; 5.8x9x9.8, 18 lbs. Used-repairable, \$85. Checked, \$115.00
 MANUAL for ZM-11, partial repro, \$8.50

AN/URM-25D



AN/URM-25D SIGNAL GENERATOR, covers 10 KHz to 50 MHz in nine bands. Output 0-100K uv into 50 ohms. Modulation 0-50 400 or 1000 Hz internal. One MHz crystal calibrator. Requires 115 VAC 50-1000 Hz. Set includes all accessories MX-1487 impedance adapter, SM-35 antenna simulator, CN-223 5:1 and CN-224 10:1 attenuators, BNC cable, and manual. Generator: 11.3x14x10.8, 52 lbs sh. Gov't-reconditioned w/accessories, \$175.00

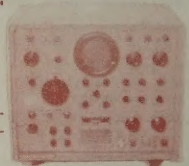
TV-7 TUBE TESTER



TV-7 TUBE CHECKER, portable unit tests most military and older commercial receiving and low-power transmitting tubes. Indicates dynamic mutual conductance, emissions, gas, noise, and shorts. Test sockets for octal, loctal, 4-,5-,6-,7-pin, 7- and 9-pin miniature, acorn, flat and round subminiature tube base sizes. With tube test data book. Requires 115 VAC 50-1000 Hz. 6.3x8.5x15.8, 22 lbs sh. Used-repairable, \$35.00; Checked, \$59.50

 TV-7-D TUBE TESTER, more recent version of above, used-repairable, \$50; Checked, \$75.00
 MANUAL for TV-7-A-B-D, partial repro \$10.00

INEXPENSIVE O-SCOPE



OS-51/USM-24C SCOPE with 3" dia display CRT; vertical response flat within -3 db from 2 Hz to 6 MHz, 0.07 usec risetime. Sweep time 0.5 to 50K usec/inch continuously adjustable; variable, fixed or pulsed trigger. Trigger pulse output 25 to 50 V of 1.6 usec width occurable at 50-300-800-2000-5000 times/sec. Has markers at 0.2-1-10-100-500 usec; also 5 KHz calibrator signal 0.1 to 1 V p-p. Vertical input impedance 300K ohms shunted by 40 pf. With 29 tubes including 3JP1 CRT; requires 115 VAC 60 Hz. 14.5x17.3 x12.4, 55 lbs sh. Used-repairable, "power transformer-life not guaranteed," \$34.95
 MANUAL for USM-24C, partial repro, \$15.00
 PROBES: CG-883 10:1 attenuator, \$9.00
 CG-1277 cathode follower, \$8.00
 CG-409 BNC CABLE, 6' RG-58, \$3.00 ea
 COAXIAL ADAPTERS female (f), male (m):
 UG-201, N (f) to BNC (m), \$2.50 ea
 UG-255, BNC (f) to UHF (m), \$2.00 ea
 UG-273, BNC (m) to UHF (f), \$2.00 ea
 UG-274, BNC T connector (m-f-m), \$3.00 ea
 UG-349, N (m) to BNC (f), \$2.50 ea
 UG-924, Binding post to BNC (f), \$1.50 ea